

Claims

- [c1] 1.A sealing assembly for a cable to apparatus interconnection, comprising:
a plurality of shells adapted to mate together, surrounding the interconnection within an interconnection space; when mated together, the shells forming openings for the cable and the apparatus at an apparatus end and a cable end, respectively;
a gasket mounted to each shell along a mating surface between the shells and along the openings;
a locking band around an outer diameter of the mated together shells, the locking band having a retaining means for end to end interconnection.
- [c2] 2.The device of claim 1, wherein the retaining means is a hook over fin closure.
- [c3] 3.The device of claim 1, wherein the locking band is seated between shoulders formed in the shells.
- [c4] 4.The device of claim 1, wherein the plurality of shells is two shells, the two shells forming the outer diameter having a minimum radius at the mating surface between the shells; and a depression in an outer surface of each

shell formed proximate a midpoint between the mating surfaces; the depressions receiving an inward projecting protrusion of the locking collar as the locking collar is rotated about the shells from a closed to a locked position.

- [c5] 5.The device of claim 1, wherein the gasket is formed from one of a liquid injection molded silicone rubber, liquid silicone rubber, thermoplastic elastomer and molded closed-cell foam.
- [c6] 6.The device of claim 1, wherein the locking band is segmented into two halves by a hinge portion.
- [c7] 7.The device of claim 1, wherein the shell has at least one locking rib projecting into the connection area to rotatably interlock the shell with a coupling nut of the interconnection.
- [c8] 8.The device of claim 1, wherein a width along a longitudinal axis of the gaskets along the openings is greater at the cable end than at the apparatus end.
- [c9] 9.A sealing assembly for a cable to apparatus interconnection, comprising:
three shells adapted to mate together, surrounding the interconnection within an interconnection space;
when mated together, the shells forming openings for

the cable and the apparatus at an apparatus end and a cable end, respectively;
a gasket mounted to each shell along a mating surface between the shells and along the openings;
a hinge portion between each of the shells; and
a retaining means adapted to retain the shells in a mated together configuration around the interconnection.

[c10] 10.The device of claim 9, wherein the retaining means is at least one hole which mates with at least one fin.

[c11] 11.The device of claim 10, wherein a locking bar operable as a lever extends from the retaining means, along the longitudinal length of the retaining means.

[c12] 12.The device of claim 9, wherein at least one shell has at least one locking rib projecting into the connection area to rotatably interlock the shell with a coupling nut of the interconnection.

[c13] 13.The device of claim 9, wherein the gasket is formed from one of a liquid injection molded silicone rubber, liquid silicone rubber, thermoplastic elastomer and molded closed-cell foam.

[c14] 14.The device of claim 9, wherein a width along a longitudinal axis of the gaskets along the openings is greater at the cable end than at the apparatus end.

[c15] 15.The device of claim 14, wherein an inner groove is formed in the gasket at the cable end.

[c16] 16.The device of claim 9, further including a plurality of compensation spikes formed protruding from the gasket(s) proximate a contact point between each of the gasket(s) with each other and the cable.